VILLAGE OF BRIDGEVIEW

NATURAL AREAS PUBLIC ACCESS IMPROVEMENTS

at

Bridgeview Court Natural Area

Phase 1

BIDS DUE: 2:00 PM, WEDNESDAY DECEMBER 14, 2011

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ADVERTISEMENT FOR BID

Sealed bids for the Bridgeview Court Natural Area Public Access Improvements

(Phase I) will be accepted at the Village of Bridgeview, 7500 S. Oketo Avenue,

Bridgeview, Illinois 60455, until 2:00 p.m. on Wednesday December 14, 2011, at

which time bids will be publicly opened. This construction project involves public

access improvements to a protected natural area, known as the Bridgeview Court

Natural Area (BCNA) and includes the supply and construction of a mulch path,

wooden deck and stairs, asphalt path, grading, seeding restoration and related park

amenities. The project is partially funded by an Illinois Department of Commerce &

Economic Opportunity (IDCEO) grant.

Instructions to Bidders and Specifications will be available on Monday, November

28, 2011, at the Village of Bridgeview website: http://www.bridgeview-il.gov/. It

is anticipated that a bid proposal will be awarded during the January 18, 2012

meeting of the Village of Bridgeview Mayor and Board of Trustees. The Village of

Bridgeview reserves the right to waive any irregularities in the bidding process and

2

to reject any and all bids.

By Order of the Mayor and Board of Trustees

Dated: November 23, 2011

Village of Bridgeview – BCNA Public Access Improvements Bid

INSTRUCTION TO BIDDERS

A. SCOPE

The Contractor shall furnish all labor, materials, tools and equipment required to complete the construction indicated in these Drawings and Specifications.

B. PROJECT IDENTIFICATION AND LOCATION

Bridgeview Court Natural Area Access Improvements (Phase I)

Location: Harlem Avenue (East) North of 77th Street, Bridgeview IL 60455

Site Area: ~12 acres

The purpose of the project is to develop access improvements to enhance the experience of the public in enjoying this natural area. The project will add trails, a lookout deck, signs, boardwalks and related amenities to the site. A portion of the improvements will be ADA compliant.

The site is a natural area which supports wet-mesic prairie and wetland ditch plant communities. These communities are environmentally fragile. The site is also protected by an Illinois Conservation Easement. All construction activities must be comply with Illinois and US federal law applicable to such a protected site.

C. RECEIPT AND OPENING OF BIDS

- 1. Sealed bids shall be received by the Village of Bridgeview until 2:00 p.m. Wednesday December 14, 2011 at the Village of Bridgeview, 7500 S. Oketo Avenue, Bridgeview, IL 60455; at which time all bids will be publicly opened and read.
- 2. The Village reserves the right to reject any or all bids, or to accept any portion of the bid, and to waive any formality or technicality in any Proposal in the interest of the Village.
- 3. Any bid may be withdrawn prior to the above date and time for the bid opening. Any bid received after specified bid opening time will not be considered.

D. PREPARATION OF BIDS

- 1. Each bid shall be submitted on the Bid Form or copy furnished in these documents.
- 2. All bids must be written in ink or typewritten, and signed with the legal signature of the Bidder, and enclosed in an opaque envelope, sealed, and clearly addressed as follows:

SEALED BID FOR BCNA NATURAL AREA IMPROVEMENTS - PHASE 1

The envelope shall also contain the name and address of the bidder. The Village will not be responsible for premature opening of bid envelopes that are not properly marked.

E. EXAMINATION

- 1. Each bidder shall first examine the site, taking into consideration all such conditions that may affect this work. A submission of a proposal implies that this examination has been made.
- 2. Each bidder shall examine each and every part of these Specifications and Drawings in order to comply with all requirements.
- 3. Each bidder shall acknowledge they understand that the site contains wetlands, as defined by both Illinois and Federal statutes and are protected as such. Dredging and/or filling or alterations of these wetlands are regulated by the Illinois Department of Natural Resources, the Illinois Environmental Protection Agency, the Cook County Environmental Control, the US Environmental Protection Agency and the US Army Corps of Engineers.
- 4. Each bidder shall agree that all construction activities must remain outside the natural area and wetlands except as explicitly provided within the specifications or drawings.

F. QUALIFICATIONS OF BIDDER

The Village may take action deemed necessary to investigate the qualifications of each bidder. Each bidder shall complete the affidavit of experience form in these Bid Documents and submit such form with the bid form. The Village reserves the right to qualify or disqualify bidders as a result of lack of similar project experience and/or any other information obtained from the affidavit of experience form.

G. ADDENDA AND INTERPRETATION

All interpretations and requests for interpretations of the Bid Documents & Drawings shall be made in writing at least seven (7) calendar days prior to bid opening via email ONLY to the Landscape Architect – RGC Design: bbb@gcdesign.com, who will review and answer all questions via email and fax to all plan holders no later than three (3) days prior to the bid opening. Oral interpretations or guidance shall be given only in the event and notifications of a pre-bid conference (no such meeting is planned at this time). Any addenda shall become part of the Contract Documents. The bidder must acknowledge receipt of each addendum (in its response) or risk being found non-responsive (incomplete) to the RFP.

H. CONTRACT DOCUMENTS

The Bidder to whom the project is awarded will be required to enter into a contract with the Village of Bridgeview for the extent of the work and contractual amount until the completion of the agreed work. The awarded Bidder will be required to enter into a contract with the Village of Bridgeview within ten (10) days after acceptance of the bid price.

I. REQUIREMENTS FOR PERFORMANCE, PAYMENT AND BID BOND

- 1. Each proposal shall be accompanied by a properly certified bid bond payable to the Village of Bridgeview for not less than ten (10%) percent of the total bid amount. The Bid Bonds will be returned promptly upon the approved execution of the Contract and Contract Bonds.
- 2. If a bid is accepted and before commencing any work on the project, the successful Bidder shall furnish a Performance Bond and a Labor and Material Payment Bond to the Owner. The Performance Bond shall be in an amount equal to 100 percent of the full amount of the Agreement price as security for the faithful performance of the obligations of the Agreement and the Labor and Material Payment bond shall be in an amount equal to 100 percent of the full amount of the Agreement price as security for the payment of all persons performing labor and furnishing materials in connection with the Agreement. The bonds may be combined. The Performance Bond shall include the provision guaranteeing the faithful performance of the Prevailing Wage Act.

I. SUBMITTAL OF PLANS AND SPECIFICATIONS

Before commencing work, the Contractor shall submit for approval two copies of the manufacturer's information covering all materials and equipment that he proposes to furnish. The Contractor shall commence no work nor purchase any materials prior to the approval of the submittals except at the Contractor's risk. Approval of the submittals by the Owner shall not be considered a waiver of any provisions of the specifications nor shall they be construed to permit a waiver from any of the performance criteria required at the final inspection.

K. MATERIALS

All materials supplied by the Contractor under the provisions of these Specifications and Plans shall be new materials of the kind and character called for by the Specifications. Defective equipment or material damaged in the course of installation or tests shall be replaced or repaired in a manner satisfactory to the Owner. All material and equipment to be furnished under these Specifications shall be the standard product of a manufacturer regularly engaged in the production of such

material and shall be the manufacturer's current standard design. All materials and labor shall carry a minimum of a one-year (1) warranty. For the restoration work, all materials and workmanship shall be covered by a 24-month full replacement warranty.

L. SUBSTITUTION OF MATERIALS

The materials specified have been determined to have the characteristics appropriate for the purpose of the project. In the event, however, the clause "or equal" is used in the Specifications pertaining to the material or article, the use of an alternate article other than that specified must be submitted for written approval of the Owner or his representative not less than three days prior to bid. Bids which propose to use a non-approved alternate may be rejected. The Owner reserves the right to reject any or all bids.

M. AWARDING OF CONTRACT

- 1. Bids will be presented to the Village Board for approval on January 18, 2012, during a regular board meeting.
- 2. The Village expects the Bid will be awarded to the lowest and most responsible Bidder.
- 3. The Village Board retains the right to reject all proposals if it is in the best interests of the Village and the project.

N. COMPLETION OF CONTRACT WORK

All work contained in these documents shall be completed no later than May 25, 2012.

O. BASIS OF PAYMENT

Payment shall be made for eighty-five (85 %) percent of the bid price upon completion of work or portion thereof. The balance of ten (15 %) percent shall be paid after receipt of final waivers of lien for all materials used, after receipt of certified payroll records and within sixty (60) days of work completion.

P. GOVERNING LAWS AND REGULATIONS

The Bidder to whom the work is awarded shall perform all work and use only those materials that conform to city, state and federal codes regarding health, safety and welfare. The Village of Bridgeview shall be held faultless for failure of work and material that does not conform to such codes.

The Contractor shall comply with the provisions of the Employment of Illinois Workers on Public Works Act, 30 ILCS 570/0.01, et seq., the Drug Free Workplace Act, 30 ILCS 580/1, et seq., the Illinois Human Rights Act, 775 ILCS 5/1-101, et seq. the Public Construction Bond Act, 30 ILCS 550/1, et seq., and the Prevailing Wage Act, 820 ILCS 130/0.01, et seq., but nothing herein shall require the application of those Acts unless required by state law. This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. (the "Act"). The Act requires contractors and subcontractors to pay

laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: http://www.state.il.us/agency/idol/rates/rates.HTM. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties. For the entire duration of his work under the Contract, the Contractor shall conform to the federal and the state statutes on equal opportunity and fair employment.

THE CURRENT PREVAILING WAGE RATES FOR COOK COUNTY, ILLINOIS ARE ON THE FOLLOWING PAGES. THE AWADED CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COMPLYING WITH UPDATED RATES.

Cook County Prevailing Wage for November 2011

Trade Name Trng	RG TYP	C Base	FRMAN	*M-F>8	OSA	OSH	H/W	Pensn	Vac
=======================================	== === =	=====	=====	=====	===	===	=====	=====	=====
====									
ASBESTOS ABT-GEN	\mathtt{ALL}	35.200	35.700	1.5	1.5	2.0	12.18	8.820	0.000
0.450									
ASBESTOS ABT-MEC	\mathtt{BLD}	32.850	0.000	1.5	1.5	2.0	10.82	10.66	0.000
0.720			46.000						
BOILERMAKER	\mathtt{BLD}	43.020	46.890	2.0	2.0	2.0	6.720	9.890	0.000
0.350 BRICK MASON	DI D	20 700	42 760	1 -	1 -	2 0	0 200	11 17	0 000
0.730	BLD	39.780	43.760	1.5	1.5	2.0	9.300	11.17	0.000
CARPENTER	ALL	40 770	42.770	1 5	1 5	2 0	12 2/	11.25	0 000
0.530	АПП	40.770	42.770	1.5	1.5	2.0	12.54	11.23	0.000
CEMENT MASON	ALL	41 850	43.850	2 0	1 5	2 0	10 70	10.76	0 000
0.320	7322	11.030	13.030	2.0	1.5	2.0	10.70	10.70	0.000
CERAMIC TILE FNSHER	BLD	33.600	0.000	2.0	1.5	2.0	9.200	6.680	0.000
0.580									
COMM. ELECT.	\mathtt{BLD}	36.440	38.940	1.5	1.5	2.0	8.420	8.910	0.000
0.700									
ELECTRIC PWR EQMT OP	ALL	41.850	46.850	1.5	1.5	2.0	10.27	13.01	0.000
0.320									
ELECTRIC PWR GRNDMAN	\mathtt{ALL}	32.640	46.850	1.5	1.5	2.0	8.000	10.12	0.000
0.240									
ELECTRIC PWR LINEMAN	\mathtt{ALL}	41.850	46.850	1.5	1.5	2.0	10.27	13.01	0.000
0.320									
ELECTRICIAN	\mathtt{ALL}	40.400	43.000	1.5	1.5	2.0	13.83	7.420	0.000
0.750									
ELEVATOR CONSTRUCTOR	BLD	47.410	53.340	2.0	2.0	2.0	10.53	10.71	2.840
0.000	3.7.7	22 660	24 660	1 -	1 -	2 0	10 40	10 00	0 000
FENCE ERECTOR 0.250	ALL	32.660	34.660	1.5	1.5	2.0	12.42	10.00	0.000
GLAZIER	BLD	20 000	39.500	1 5	2 0	2 0	10 10	13.64	0 000
0.790	БПО	30.000	39.300	1.5	2.0	2.0	10.19	13.04	0.000
HT/FROST INSULATOR	BLD	43.800	46.300	1.5	1.5	2.0	10.82	11.86	0.000
0.720	DLD	13.000	10.500	1.5	1.5	2.0	10.02	11.00	0.000
IRON WORKER	ALL	40.750	42.750	2.0	2.0	2.0	13.20	19.09	0.000
0.350									
LABORER	\mathtt{ALL}	35.200	35.950	1.5	1.5	2.0	12.18	8.820	0.000
0.450									
LATHER	\mathtt{ALL}	40.770	42.770	1.5	1.5	2.0	12.34	11.25	0.000
0.530									
MACHINIST	\mathtt{BLD}	43.160	45.160	1.5	1.5	2.0	7.980	8.950	0.000
0.000									
MARBLE FINISHERS	ALL	29.100	0.000	1.5	1.5	2.0	9.300	11.17	0.000
0.660		20 222	40.000	1 -	1 -		0 000		0 000
MARBLE MASON	BLD	39.030	42.930	1.5	1.5	2.0	9.300	11.17	0.000
0.730	7 T T	25 200	0 000	1 5	1 5	2 0	10 10	0 000	0 000
MATERIAL TESTER I	ALL	25.200	0.000	1.3	т.э	∠.∪	17.18	8.820	0.000

0.450									
MATERIALS TESTER II	ALL	30.200	0.000	1.5	1.5	2.0	12.18	8.820	0.000
0.450									
MILLWRIGHT	ALL	40.770	42.770	1.5	1.5	2.0	12.34	11.25	0.000
0.530									
OPERATING ENGINEER	BLD 1	45.100	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	BLD 2	43.800	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	BLD 3	41.250	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	BLD 4	39.500	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250	D.T.D. F	40.050	40 100	0 0			1.4.40	0 550	1 000
OPERATING ENGINEER	BLD 5	48.850	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250	DID (46 100	40 100	2 0	2 0	2 0	14 40	0 550	1 000
OPERATING ENGINEER	RTD 0	46.100	49.100	2.0	2.0	2.0	14.40	9.550	1.900
1.250 OPERATING ENGINEER	DID 7	48.100	40 100	2 0	2 0	2 0	14.40	0 550	1.900
1.250	вгр /	48.100	49.100	2.0	2.0	2.0	14.40	9.550	1.900
OPERATING ENGINEER	FT.T 1	51.300	51 300	1 5	1 5	2 0	11 70	8.050	1 000
1.150	гыг т	31.300	31.300	1.5	1.5	2.0	11.70	0.050	1.900
OPERATING ENGINEER	FT.T 2	49.800	51 300	1 5	1 5	2 0	11.70	8 050	1.900
1.150	111 2	49.000	31.300	1.5	1.5	2.0	11.70	0.050	1.500
OPERATING ENGINEER	FLT 3	44.350	51.300	1.5	1.5	2.0	11.70	8.050	1.900
1.150			021000						
OPERATING ENGINEER	FLT 4	36.850	51.300	1.5	1.5	2.0	11.70	8.050	1.900
1.150									
OPERATING ENGINEER	HWY 1	43.300	47.300	1.5	1.5	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	HWY 2	42.750	47.300	1.5	1.5	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	HWY 3	40.700	47.300	1.5	1.5	2.0	14.40	9.550	1.900
1.250									
OPERATING ENGINEER	HWY 4	39.300	47.300	1.5	1.5	2.0	14.40	9.550	1.900
1.250		20 100	45 200	1 -			1.4.40	0 550	1 000
OPERATING ENGINEER	HWY 5	38.100	4/.300	1.5	1.5	2.0	14.40	9.550	1.900
1.250 OPERATING ENGINEER	UWV 6	46.300	47 200	1 5	1 5	2 0	14 40	9.550	1 000
1.250	HWI O	40.300	47.300	1.5	1.5	2.0	14.40	9.330	1.900
OPERATING ENGINEER	ныу 7	44.300	47 300	1 5	1 5	2 0	14 40	9.550	1 900
1.250	1100 1 /	44.500	47.500	1.5	1.5	2.0	14.40	J. 330	1.500
ORNAMNTL IRON WORKER	ALL	40.200	42.450	2.0	2.0	2.0	12.67	14.81	0.000
0.500	11111	10.200	12.130	2.0	2.0	2.0	12.07	11.01	0.000
PAINTER	ALL	38.000	42.750	1.5	1.5	1.5	9.750	11.10	0.000
0.770									
PAINTER SIGNS	BLD	32.770	36.800	1.5	1.5	1.5	2.600	2.620	0.000
0.000									
PILEDRIVER	ALL	40.770	42.770	1.5	1.5	2.0	12.34	11.25	0.000
0.530									
PIPEFITTER	BLD	44.050	47.050	1.5	1.5	2.0	8.460	13.85	0.000
1.820									
PLASTERER	BLD	39.250	41.610	1.5	1.5	2.0	10.60	10.69	0.000

0.550											
PLUMBER		BLD		44.750	46.750	1.5	1.5	2.0	11.59	9.060	0.000
0.780				0							
ROOFER 0.430		BLD		37.650	40.650	1.5	1.5	2.0	7.750	6.570	0.000
SHEETMETAL WORKER		BLD		40.460	43.700	1.5	1.5	2.0	9.830	16.25	0.000
0.630					100,00				2		
SIGN HANGER		\mathtt{BLD}		28.960	29.810	1.5	1.5	2.0	4.700	2.880	0.000
0.000											
SPRINKLER FITTER		BLD		49.200	51.200	1.5	1.5	2.0	9.250	8.050	0.000
0.450 STEEL ERECTOR		ALL		40 750	42.750	2 0	2 0	2 0	12 20	19.09	0 000
0.350		АЬЬ		40.750	42.750	2.0	2.0	2.0	13.20	19.09	0.000
STONE MASON		BLD		39.780	43.760	1.5	1.5	2.0	9.300	11.17	0.000
0.730											
TERRAZZO FINISHER		\mathtt{BLD}		35.150	0.000	1.5	1.5	2.0	9.200	9.070	0.000
0.430											
TERRAZZO MASON		BLD		39.010	42.010	1.5	1.5	2.0	9.200	10.41	0.000
0.510 TILE MASON		BLD		40 490	44.490	2 0	1 5	2 0	9 200	8.390	0 000
0.640		טנוט		40.490	44.490	2.0	1.5	2.0	9.200	0.390	0.000
TRAFFIC SAFETY WRKR		HWY		28.250	29.850	1.5	1.5	2.0	4.896	4.175	0.000
0.000											
TRUCK DRIVER	E	ALL	1	30.700	31.350	1.5	1.5	2.0	6.750	5.450	0.000
0.150	_		_	20 050	21 252		1 -		6 550	F 450	0 000
TRUCK DRIVER 0.150	E	ALL	2	30.950	31.350	1.5	1.5	2.0	6./50	5.450	0.000
TRUCK DRIVER	Е	AT.T.	3	31.150	31.350	1.5	1.5	2.0	6.750	5.450	0.000
0.150	_		Ū	011100	011000	1.0	1.0		0.,00	0.100	
TRUCK DRIVER	E	ALL	4	31.350	31.350	1.5	1.5	2.0	6.750	5.450	0.000
0.150											
TRUCK DRIVER	W	ALL	1	32.550	33.100	1.5	1.5	2.0	6.500	4.350	0.000
0.000 TRUCK DRIVER	W	лтт	2	32.700	33.100	1 5	1 5	2 0	6 500	4.350	0 000
0.000	VV	АГГ	Z	32.700	33.100	1.5	1.5	2.0	0.500	4.330	0.000
TRUCK DRIVER	W	ALL	3	32.900	33.100	1.5	1.5	2.0	6.500	4.350	0.000
0.000											
TRUCK DRIVER	W	ALL	4	33.100	33.100	1.5	1.5	2.0	6.500	4.350	0.000
0.000											
TUCKPOINTER		BLD		39.200	40.200	1.5	1.5	2.0	7.830	10.25	0.000
0.770											

Legend: M-F>8 (Overtime is required for any hour greater than 8 worked
each day, Monday through Friday.
OSA (Overtime is required for every hour worked on Saturday)
OSH (Overtime is required for every hour worked on Sunday and Holidays)
H/W (Health & Welfare Insurance)
Pensn (Pension)
Vac (Vacation)
Trng (Training)

SAMPLE CONTRACT

This agreement, made this day of	, <u>2012</u> , between the	e Village of Bridgeview,
Bridgeview, Illinois, hereinafter referred	d to as "Village", and	hereinafter
referred to as "Contractor."		

WITNESSETH

That the Village and Contractor, for the consideration hereinafter named, agree as follows:

Section I. The Contractor will provide material, equipment and labor for

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Section II. The work, equipment and materials agreed to be furnished shall be completed in accordance with the drawings, plans, addenda and specifications attached to and made a part of the within contract, and identified by the parties hereto.

Section III. The Contractor agrees to complete the work and labor herein agreed to be furnished in accordance with the following schedule:

Section V.

- 1. Contractor agrees to perform all work in a good and workmanlike manner.
- 2. Contractor shall comply with the Prevailing Wage Act for construction trades as required by the Illinois Department of Labor. This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. (the "Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: http://www.state.il.us/agency/idol/rates/rates.HTM. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.
- 3. Contractor, on receipt of this contract, shall immediately place orders for materials.
- 4. Contract will comply with all fire and safety regulations in effect at the project site.
- 5. No claim for extras shall be allowed unless such claim shall be first submitted in writing to the Village and approved in writing by an authorized agent of the

Village.

6. Contractor shall contact all utility companies and have the work site checked for utilities prior to construction.

Section VI.

Contractor shall secure and maintain in effect at all times, at its expense, insurance of the kinds and limits set forth in the General Conditions to cover all locations of the Contractor's operations in connection with the Work. The Contractor shall furnish certificates of insurance to the Owner before stating construction, or within 10 days after the execution of the Agreement, whichever date is reached first. All insurance shall include a non-cancellation clause provision preventing cancellation without at least 10 days written prior notice to the Owner, but shall remain in effect throughout the life of the project. All insurance policies shall name the Owner as an additional insured.

Section VII.

Contractor shall be paid eighty-five percent 85% of the contract sum after the completion of the entire work. Not later than the 1st Monday of the month after completion of the entire work, the Contractor shall make an application for payment to the Owner, and such application shall consist of a sworn Contractor's statement supported by waivers of lien for all labor and materials being paid and certified payroll records required by the Prevailing Wage Act. Upon verification that the amount applied for is correct, and that the Work has been completed in accordance with the Contract Documents, the Owner shall pay 85% of the amount due not later than five (5) days after the 3rd Tuesday of that month. Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when (1) the Agreement has been fully performed by the Contractor except for the Contractor's responsibility to satisfy requirements, if any, which necessarily survive final payment; and (2) and the Work has been accepted by the Owner. Final payment shall be made by the Owner not more than 60 days after completion and acceptance by Owner.

IN WITNESS WHEREOF the parties hereto have set their respective hands and seals the day and year first above written.

OWNER:	CONTRACTOR:
Village of Bridgeview	
Steven Landek, Mayor	Signature of Officer
•	· ·
	Print Name
	Title of Officer
ATTEST:	ATTEST:
John Altar, Village Clerk	

BID FORM

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455

MARKED FOR PROJECT: Bridgeview Court Natural Area Access Improvements (Phase I)

A. ACKNOWLEDGEMENTS

1.	Receipt of Documents: Bidder has received a complete se understands the meaning of their content, and shall willing set forth in these documentsYes;No.		-
2.	<u>Identification of Documents Received</u> : The following is a should appear in the Bid Documents. Please complete the if any of the documents have been omitted.		
		<u>Yes</u>	<u>No</u>
1)	Advertisement for Bid		
2)	Instruction to Bidders		
_	Bid Form		
	Affidavit of Experience		
_	Division 1 - General Conditions		
6)	Division 2 - Special Conditions		
	2.1 Excavation		
	2.2 Compaction		
	2.3 Rough Grading		
	2.4 Fine Grading		
	2.5 EnviroSign Installation		
	2.6 TrailBlaze ADA Accessible Aggregate Pathway		
	2.7 Landscape Edge for TrailBlaze Path		
	2.8 Deck & Boardwalks by Wickcraft		
	2.9 Natural Erosion Control Plant Mix		
	2.10 Wood Chip Path Installation		
DRA	AWINGS		
	BC-1 Bridgeview Court Natural Area Site Layout Plan		
	BC-2 Bridgeview Court Natural Area Grading Plan		
	BC-3 Bridgeview Court Natural Area Deck & Boardwalks		
	D-1 Construction Details		
	Add 41 (:6 1)		
	Addendum #1 (if any issued)		
	Addendum #2		
	Addendum #3		

B. PROPOSAL

BRIDGEVIEW COURT NATURAL AREA ACCESS CONSTRUCTION - PHASE 1

Itemized Bid Form				
Description	Quantity	Unit	Unit Price	Total Cost
DEMOLITION	_			
Remove section of rope/post fence, reset around	1	l.s.		
path access point – per plan				
		De	molition Total	
EXCAVATION & GRADING				
Erosion Control Silt Fence (for Base Bid)	621	1.f.		
Excavation for access path, lookout deck,	192	c.y.		
woodchip paths and signs per plan				
		Exc	cavation Total	
GENERAL CONSTRUCTION				
TrailBlaze Access Path – supply and install	1,495	s.f.		
Concrete access curb cut & deck transition	132	s.f		
landing				
Wood Chip Path #1 – supply & install fabric,	1,847	s.f.		
install wood chips provided by Village				
Lookout Deck and stairway – supply per specs	1	l.s.		
and install	_			
Benches by Wickcraft – supply per specs and install	3	ea.		
Boardwalk #1 – supply per specs and install	1	ea.		
	Gen	eral Cons	truction Total	
LANDSCAPE RESTORATION				
Site Protection	1	l.s.		
Natural Erosion Control Mix – supply and install	1	1.s.		
Turf grass ROW restoration	1	l.s.		
		La	ndscape Total	

TOTAL BASE BID	¢
I U I AL DASE DID	JP

NOTE:

Quantities included are based on the plans presented. If there are any discrepancies between the plans and the Itemized Bid Form, the plans take precedence. If such a discrepancy is noted, please write it into the Itemized Bid Form and notify the Village immediately.

The following are options or alternatives that this project may include if project funds allow. The final inclusion of these options is solely at the discretion of the Village.

ADD ALTERNATES:

ALTERNATE #1:

Wood Chip Path #2 – supply & install fabric,	2,617	s.f.	
install wood chips provided by Village			
Erosion Control Silt Fence (for Alt. #1)	204	1.f.	

	TERNA					
Boa	ardwalk ‡	[‡] 2 – supply per specs and install	1	ea.		
ΑL	TERNA	ATE #3:				
		th Edging for TrailBlaze Path	481	1.f.		
ΔĪ	TERNA	TE #1.				
		per plan – supplied by Owner	1	1.s.		
		TOTAL OPTIONS/AI	LTERNAT	IVES		\$
		,				·
	1.	The Bidder hereby agrees to pi	rovide all la	ahor mater	rials tools and	equipment required to
	1.	complete project construction				
		Drawings.				
	2.	The Bidder understands that a	properly c	ertified bid	l bond payable	e to the Village of
		Bridgeview for not less than te each bid.	n (10%) pe	ercent of th	e total bid am	ount will be required fo
Foi	rm of Bi	d Security, i	n the amou	ınt of \$		is enclosed.
		BID WILL BE AWARDED TO TO	OTAL BASI	E BID AMO	UNT, PLUS AN	Y SELECTED OPTIONS
		or ALTERNATES.				
SIC	SNATUR	!E				
	Firm_					
		ss (street)				<u>.</u>
		city, state, zip)				.
2						.
		()				
4.	Date		<u> </u>			
_	C: .	ure	m:	tle		
5	Nonati	ure	T 11	TIP .		

STATE OF _____ COUNTY OF______ being duly sworn, says that he/she is of (sole owner, member of firm, corporate official) (Individual, firm, corporate name) which has done work for the following parties of or the general kind and approximate magnitude required under this Contract: (list project name, contact, phone number and date of completion) Completion Date **Project Name** Contact Phone # owns or has available for immediate use on the and that _____ (he/she, said firm, said corporation) proposed work the following plant and equipment: _____ will be assigned to work under this Contract, and and that (name of superintendent) that his experience in this kind of work is as follows: (Signature) Subscribed and sworn to before me this ______, 2011

_____Notary Public

AFFIDAVIT OF EXPERIENCE (*This Affidavit must be executed*)

DIVISION I - GENERAL CONDITIONS

1.1 <u>DEFINITION OF TERMS</u>

- A. <u>Owner</u>: Village of Bridgeview, or authorized personnel representing the interest of the Village.
- B. <u>Contractor/Vendor</u>: The individual, firm or corporation undertaking the execution of the work under the terms of the Contract, and acting directly or through a duly authorized representative.
- C. <u>Plans</u>: All official drawings or reproductions of drawings pertaining to the work provided for in the Contract as prepared by the Owner or his agent.
- D. <u>Construction Observer</u>: The authorized representative of the Owner assigned to make construction observation of the work or materials thereof.
- E. <u>Bidder</u>: Any individual, firm or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.
- F. <u>Corporation</u>: With respect to the execution and performance of the Contract, a corporate body authorized or licensed to do business in the state in which the site is located.
- G. <u>Specification</u>: The body of directions, conditions and requirements contained in the Contract, together with written agreements and all documents of any description made or to be made pertaining to the method or manner of performing the work, the quantities, or the quality of materials to be furnished under the Contract.
- H. <u>Proposal</u>: The offer of the Bidder to perform the work proposed, presented upon the proposal form prepared by the Owner.
- I. <u>Contract</u>: The written Agreement covering the performance of the work and the furnishing of materials for the construction of the project. The Contract includes the Agreement, Invitation for Bids, Instructions to Bidders, Bid Proposal, Contract Bond, Plans, Specifications, Supplemental Agreements, these General Conditions and Special Conditions pertaining to the work or materials. Dated and numbered Addenda or Memoranda of Instruction or Interpretations of Work shall also be deemed part of the Contract and included in the work covered by the Bid Proposal.
- J. <u>Bid Bond</u>: The security designated in the Invitation for Bids and the Proposal, to be furnished by the Bidder as a guarantee of good faith to enter into the Contract for the work contemplated.
- K. <u>Performance and Payment Bonds</u>: The form of security approved by the Owner and furnished by the Contractor and his Surety as a guarantee of good faith and ability on the part of the Contractor to execute the work and pay for labor and materials in

accordance with the terms of the Contract.

- L. <u>Award</u>: The decision of the Owner to accept the Proposal of a responsible Bidder for the work, subject to the execution and approval of the Contract and Contract Bond to secure the performance thereof, and to such other conditions as may be specified or otherwise required by law.
- M. <u>Or Equal</u>: When used on the drawings or in the specifications in reference to a material, produce or procedure shall mean a <u>substitute</u> meeting the exact specification of those items so stated; and must be approved by the Owner before bids are submitted.
- N. <u>Special Conditions</u>: Special conditions, when included in these contract documents, shall act to supplement these <u>General Conditions</u>, the attached specifications and the plans on particular portions of the project. They shall govern the contract documents whenever they conflict therewith, but shall not operate to annul those portions of the Specifications with which they are not in conflict.

1.2 Ownership or Plans and Specifications:

- A. All Plans and Specifications and copies thereof, furnished by the Owner, are his property. They are not to be used on other work, and with the exception of one complete set, are to be returned to him on request at the completion of the Contract work. No deposit for plans will be required.
- B. The Plans, Specifications, Special Conditions and Proposal Form are intended to include all job items necessary to properly complete the work. If, through inadvertence or otherwise, the Plans or Specifications omit to require any work necessary for such completion, the Contractor shall, nevertheless, be required to perform such work. Plans and Specifications are intended to be consistent with one another and with other portions of the Contract. Work or materials called for by the Plans and not mentioned in the Specifications, or vice-versa, shall be performed in as faithful and thorough manner as though fully covered by both.

1.3 PROPOSAL FORM

- A. Bidders will be furnished with a Proposal Form, attached to the Specifications, stating the items of work contemplated. The Contractor review and confirm the quantities on the bid form and notify the Owner of any discrepancy.
- B. The Proposal Form states the date, time and place of filing and opening of Proposals.

1.4 <u>BID BOND</u>

Each proposal shall be accompanied by a properly certified check, bank draft, cashier's check or a bid bond, as designated in the Proposal Form, made payable to the Owner. The Proposal Guarantee will be returned as soon as the Contract and Contract Bond have been properly executed and approved.

1.5 PERFORMANCE AND PAYMENT BONDS

- A. The successful Bidder at the time of the execution of the Contract shall deposit with the Owner a Performance Bond and Payment Bond for the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the Contract, the payment of all indebtedness incurred for <u>labor and materials</u>, and guarantee correction of work for a period of one (1) year after final payment.
- B. Failure on the part of the successful Bidder to execute a Contract and deposit an acceptable Performance Bond within ten (10) days from the date of notice of the award of Contract will be considered just cause for the annulment of the Award and the forfeiture of the Proposed Guarantee to the Owner.

1.6 <u>LAWS AND PERMITS</u>

The Contractor shall at all times observe and comply with all federal, state and local laws, regulations and ordinances which in any manner affect the conduct of the work. Any complaint, claim or action brought against the Contractor for failure to observe or comply with any law, ordinance or regulation shall be the sole responsibility of the Contractor and shall in no way extend to or expose the Owner to liability, and the Contractor shall indemnify and hold harmless the Owner from any and all such complaints, claims or actions. Before beginning work, the Contractor shall obtain from the proper officials all necessary permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work.

1.7 <u>COMPETENCY OF BIDDERS</u>

The Contractor shall, when requested by the Owner, furnish signed statements evidencing his responsibilities and showing financial ability, experience, amount and condition of equipment and the value of all uncompleted work under contract pertaining to the proper execution of the specified work. In general, the Contractor's qualifications for work involving grading and drainage shall be comparable to those for Bidders with the Department of Public Works and Buildings, Division of Highways, State of Illinois.

1.8 DECISION OF THE OWNER

All work done under this Contract shall be done to the satisfaction of the Owner who shall in all cases determine the amount of work done which is to be paid for under this Contract. The Owner shall decide all questions that may arise as to the measurements of quantities and the fulfillment of this Contract on the part of the Contractor, and shall determine all questions concerning the true intent or meaning of the Plans and Specifications and his determination and decision shall be final and conclusive.

1.9 <u>USE OF SITE</u>

A. The Contractor shall confine his equipment; the storage of materials and the operations of his workmen to the limits indicated by law, ordinances, permits or directions of the Owner and shall not unreasonably encumber the site with his

materials. Note: any staging area for this project must be off-site of the natural area.

B. The Contractor shall enforce the Owner's instructions regarding the conduct and use of the site by his employees.

1.10 WORKMANSHIP

The Contractor shall be responsible for high quality workmanship on all items of work. Where workmanship of any job or portion thereof is not acceptable to the Owner, it shall be removed and replaced at the Contractor's expense.

Contractor shall be responsible for means and methods of construction.

1.11 <u>SUPERINTENDENTS</u>

The Contractor shall keep a competent superintendent on the job at all times who shall have the knowledge and control of all work under this Contract and shall communicate directly to the Owner upon request.

1.12 HOLD HARMLESS AND INDEMNIFICATION

The Contractor shall assume all liability for, and shall protect, defend, indemnify and hold harmless the Owner, the Bridgeview Park District, their elected officials, the Bridgeview Park District, their elected officials, the Bridgeview Park District, their elected officials, officers, employees, servants, and agents, from and against all claims, actions, suits, judgments, costs, losses, expenses and liabilities of whatsoever kind or nature arising out of:

- A. Any infringement (actual or claimed) on any patents, copyrights or trade names by reason of any work performed or to be performed by the Contractor under this Contract or by reason of anything to be supplied by the Contractor pursuant to this Contract:
- B. Bodily injury, including death, to any person or persons (including Contractor's officers, employees, agents and servants) or damage to or destruction of any property, including the loss of use thereof:
- 1. Caused in whole or in part by any act, error or omission by the Contractor or any subcontractor or anyone directly or indirectly employed by any of them regardless of whether or not it is caused in part by a party to be indemnified hereunder:
- 2. Arising directly or indirectly out of the presence of any person in or about any part of the project site or in the streets, sidewalks and property adjacent thereto;
- 3. Arising directly or indirectly out of the use, misuse or failure of any machinery or equipment used directly or indirectly in the performance of this Contract.

1.13 INSURANCE REQUIREMENTS FOR CONTRACTORS

Bidders' attention is directed to the insurance requirements below. Bidders shall determine in advance of bid submission the availability of insurance certificates and endorsements as prescribed and provided herein. If an apparent law bidder fails to comply strictly with the insurance requirements, that bidder may be disqualified from award of the Contract.

Contractor shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of work hereunder by the Contractor, his agents, representatives, employees or subcontractors. The cost of such insurance shall be included in the Contractor's bid.

A. <u>Minimum Scope of Insurance</u>

- 1. Insurance Services Office Commercial General Liability coverage ("occurrence" form CG 0001 1185) or Insurance Services Office form number GL 0002 (Ed. 1/73) covering Comprehensive General Liability and Insurance Services Office form number GL 0404 covering Broad Form Comprehensive General Liability or the most recent revision. Endorsement CG 21 34 11 88, CG 21 39 11 88 or other such endorsement or policy provision which limits contractual liability shall be deleted in its entirety.
- 2. Insurance Services Office Business Auto Coverage form number CA 0001 0187 covering Automobile Liability, code 1 "any auto" or most recent revision, and endorsement CA 0029 1288 Changes in Business Auto and Truckers Coverage forms Insured Contract.
- 3. Workers' Compensation insurance as required by statute and Employers Liability insurance.

B. <u>Minimum Limits of Insurance</u>

Contractor shall maintain limits no less than:

- 1. General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project using the endorsement CG 25 03 11 85 or the general aggregate limit shall be twice the required occurrence limit.
- 2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage including coverages for owned, hired or non-owned vehicles, as applicable.
- 3. Workers' Compensation and Employers Liability: Workers' compensation limits as required by statute and Employers Liability limits of \$1,000,000 per accident and \$1,000,000 per disease.

C. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the Owner. At the option of the Owner, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Owner, its officers, officials, employees, volunteers and agents; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

D. <u>Other Insurance Provisions</u>

The policies are to contain, or be endorsed to contain, the following provisions:

- 1. General Liability and Automobile Liability Coverages
 - a. The Owner, the Bridgeview Park District, their elected officials, officers, employees and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Contractor, including the insured's general supervision of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations or the scope of protection afforded to the Owner, its officers, officials, employees, volunteers, or agents.
 - b. The Contractor's insurance coverage shall be primary insurance as respects the Owner, the Bridgeview Park District, their elected officials, officers, employees, volunteers, and agents. Any insurance or self-insurance maintained by the Owner, the Bridgeview Park District, their elected officials, officers, employees, volunteers or agents shall be excess of the Contractor's insurance and shall not contribute with it.
 - c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Owner, the Bridgeview Park District, their elected officials, officers, employees, volunteers, or agents.
 - d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- 2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the Owner, the Bridgeview Park District, their elected officials, officers, employees, volunteers, and agents for losses arising from work performed by the Contractor for the Owner.

3. All Coverages

Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the Owner.

E. <u>Acceptability of Insurers</u>

Insurance is to be placed with insurers with a Best's rating of no less than A:VII and licensed to do business in the State of Illinois.

F. <u>Verification of Coverage</u>

Contractor shall furnish the Owner with certificates of insurance and with original endorsements if applicable effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements are to be received and approved by the Owner before work commences. The Owner reserves the right to require complete, certified copies of all required insurance policies, at any time.

G. <u>Subcontractors</u>

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein. The contractor shall include the names and locations of all subcontractors he/she intends to use in this project. The contractor shall state the role and activities that the subcontractor is responsible for herein.

H. <u>Indemnification Clause</u>

Contractor shall protect, indemnify, hold and save harmless and defend the Owner, the Bridgeview Park District, their elected officials, officers, employees, volunteers, and agents against any and all claims, costs, causes, actions and expenses, including but not limited to attorney's fees incurred by reason of a lawsuit or claim for compensation arising in favor of any person, including the employees or officers or independent contractors or subcontractors of the Contractor, Owner or Bridgeview Park District, on account of personal injuries or death, or damages to property occurring, growing out of, incident to, or resulting directly or indirectly from the performance by the Contractor or subcontractor, whether such loss, damage, injury or liability is contributed to by the negligence of the Owner, or the Bridgeview Park District, or by the premises themselves or any equipment thereon whether latent or patent, or from other causes whatsoever, except that the Contractor shall have no liability for damages or the costs incident thereto caused by the sole negligence of the Owner.

1.14 CHANGES OR ALTERATIONS OF CONTRACT WORK

A. The Owner reserves the right to alter the Plans by adding to or deducting from the original quantities as bid without invalidating the Contract. All such work shall be executed under the original conditions for the original contract,

except for an extension in time caused by any such changes or alterations.

- B. All changes or alterations shall be made ONLY when ordered in writing from the Owner showing any claims for changes in the Contract amount.
- C. The value of any change shall be determined by one or more of the following methods:
 - 1. By an approved Lump Sum;
 - 2. By Unit Prices given in the Contract or subsequently agreed upon;
 - 3. Time and material plus percentage. This method of cost shall be used on the Contractor's actual costs for time and material plus 20% for Contractor's overhead and profit. Contractor's actual costs shall be the direct costs for labor, payroll taxes, materials and equipment.

1.15 EXTRA WORK

The Contractor, as requested, shall perform EXTRA WORK as directed by the Owner. Written work orders and claims for payment shall be the same as those stated above in Section C. All extra work shall be approved in writing prior to the start of the extra work with the cost of the extra work clearly stated (if any).

1.16 LIENS

If at any time during the progress of said work the Contractor shall fail or neglect to pay for any labor performed, material furnished or tools, machinery, appliances, fuel, provisions or supplies of any sort or kind, used or consumed in, upon, on account of said work, for ten (10) days after payment for same shall become due, then the Owner shall have the power to pay for such labor, or for materials, and the amount so paid shall be retained out of money due, or becoming due to the Contractor. The Owner may refuse to make payment to said Contractor of monies due him to the extent of such indebtedness, and until satisfactory evidence in writing has been furnished that said indebtedness has been discharged.

1.17 <u>DISCHARGE OF EMPLOYEES</u>

If any person employed by the Contractor on the work shall appear to the Owner to be incompetent or conduct himself in a disorderly or improper manner, such person shall be removed from the work immediately on the request of the Owner.

1.18 <u>ABANDONMENT</u>

Should the Contractor abandon or neglect the work, or if the Owner at any time is convinced that the work is unreasonably delayed or that the Conditions of the Contract are being willfully violated, executed carelessly, or in bad faith, he may notify the Contractor in writing, and if this notification be without effect within twenty-four (24) hours after the delivery thereof, then, and in that case, the Contractor shall discontinue all work under the Contract and the Owner shall have full authority to make arrangements for the completion of the Contract at the expense of the Contractor.

1.19 PROTECTION OF PROPERTY - SAFETY RESPONSIBILITY

The Contractor shall protect all existing property and improvements within this Site and those adjacent to the Owner's property. He shall be responsible for the repair costs of any damage created by his operations or those of his/her sub-contractors. Existing property corners shall be replaced by a registered Land Surveyor at the Contractor's expense. The Contractor, as part of this Contract, shall provide temporary roads, fencing, bracing, lights, warning signs and signals, and related items which will effectively protect the site, the work thereon, adjacent property, workmen and the public from injury or damage.

1.20 CLEANING UP

The Contractor shall at all times (on a daily basis) keep the Site and adjoining premises free from accumulation of waste material or rubbish caused by his employees or work, and at the completion of the work, he shall remove all his rubbish, tools, and surplus materials from the site and adjoining premises, leaving the area in a neat and workmanlike condition. In case of dispute, the Owner may remove the rubbish and charge and cost to the Contractor.

1.21 CONTRACT BREAKDOWN (Lump Sum Bid)

When the contract work has been bid as a lump sum, the Contractor, after the award of contract but prior to the first request for payment, shall submit to the Owner a breakdown of his contract. The breakdown shall consist of the major items and subdivisions of the construction work.

1.22 PAYMENT

The Contractor may request partial payments, based on estimates of work, during the second or fourth weeks of each month. The estimate shall be a sworn statement of the work completed to date. Payment requests should be submitted directly to the Village of Bridgeview and in turn will be submitted to the Park Board for payment during their regularly scheduled meetings the first or third week of each month. Estimates for partial payment request shall be as follows:

- A. <u>Lump Sum</u>: When the Contract work has been awarded on Lump Sum Bid basis, the form of each estimate will include the Contractor's breakdown of job items with a total value given each item. The estimate for the items of work completed to date shall be expressed as a percentage of the total with the corresponding cost for each item shown and totaled to show the total cost of work, the work completed to date, less fifteen (15%) percent to be withheld, giving the amount requested for payment. Previous requests for payment, paid by the Owner, shall be shown on each subsequent request and subtracted after the fifteen (15%) percent has been withheld.
- B. <u>Percent Withheld</u>: Each request for payment shall be approved by the Owner only after fifteen (15%) percent has been retained as stated above.
- C. <u>Waivers of Lien</u>: Failure to supply waivers of lien or acceptable evidence of payment of all current accounts incurred by this Contract work will be considered grounds for withholding final payment.
- D. <u>Final Payment</u>: Upon satisfactory completion of the improvements provided

for by the Contract and final approval and acceptance by the Owner, the Contractor shall submit a final request for payment, including the fifteen (15%) percent withheld, to be paid by the Owner within sixty (60) days after receipt of payment request.

E. <u>Certified Payroll</u>: Certified Payroll shall be provided for all employees of the contractor and subcontractors

1.23 CORRECTION OF WORK AFTER FINAL PAYMENT

The final payment of any provision in the Contract documents shall not relieve the Contractor of the responsibility for the correction of any and all defects in the work performed. He shall correct all defects in materials and workmanship as notified for a period of two years (24 months for landscape restoration) after final payment.

1.24 RESPONSIBILITY

The Owner recognizes that the Contractor is an expert in the manner in which the work under this Contract is to be performed. The Owner agrees that the responsibility for the maintenance of safe equipment and the using of proper construction methods and procedures shall rest solely with the Contractor and sub-contractors performing the work, and that the Owner shall not have any responsibility therefore. The Owner does have the right to ascertain and require that the work product of the Contractor and his sub-contractors complies with the Contract.

1.25 CONTRACTOR RESPONSIBILITY TO OWNER

The successful bidder shall notify the Owner one (1) day (24 hours minimum) in advance of all grading, drainage, and other major items of construction for field checking of construction engineering. All questions pertaining to the Plans, Specifications and details of the work shall be directed to the Owner and cleared prior to construction.

1.26 COMPLETION DATE

It is hereby understood and mutually agreed by and between the Contractor and the Owner that the date of beginning and the time for completion as specified in the Contract is a reasonable time for the completion of the work, taking into consideration the average weather and industrial conditions prevailing in this locality. If the Contractor shall neglect, fail or refuse to complete the work within the time specified in the contract or any proper extension thereof granted by the Owner, it in no way relieves the Contractor of his responsibility to complete the work at no additional cost to the Owner. Should it be necessary to extend the completion date in order for the Contractor to complete the work, the Owner and the Contractor shall come upon a written agreement to extend the completion date, provided the Contractor shall not be responsible for failure to meet the completion date when the Owner determines that the Contractor is without fault and the Contractor's reasons for the time extension are acceptable to the Owner. The Contractor shall not be charged with any excess cost when the delay in completion of work is due to:

- A. Any order duly issued by the government (city, county, state or federal):
- B. Any unforeseeable cause beyond the control and without fault or negligence of the Contractor including, but not restricted to, Acts of God, severe weather, strikes, acts of the Owner, acts of another Contractor in the performance of a Contract with the Owner, and;

C. Any delays of sub-contractors or suppliers occasioned by any of the causes specified in subsections A and B. The Contractor shall notify the Owner within five (5) days prior to any such delay, when reasonably possible.

1.27 TEMPORARY WORK

It shall be the responsibility of the Contractor to make all arrangements to obtain permits, provide and make payment for such utilities as water, electricity, heat/air and telephone when necessary when performing work tasks as required by the Contract. The work shall consist of all tools, materials and labor necessary to complete the work as specified on the drawings. The Contractor shall be responsible for complying with all municipal codes and for inspections to certify compliance with all codes.

1.28 CONSTRUCTION AIDS

- A. <u>Pumping</u>: If, during construction, standing water caused by heavy rains or poor drainage becomes a hazard in the proper execution of the Contract, it shall be the responsibility of the Contractor to provide and make payment for removal of said water to existing drainage swales, storm sewers or other natural or man-made drainageways.
- B. <u>Ladders and Hoists:</u> It shall be the responsibility of the Contractor to provide ladders and hoists when necessary in performing work tasks as required by the Contract.
- C. <u>Temporary Roads</u>: It shall be the responsibility of the Contractor to provide and make payment for any necessary temporary roads for access to and within the site during the execution of the Contract. No temporary roads will be made in the natural areas of the site.

1.29 PROTECTION

- A. <u>Public and Adjacent Property</u>: The Contractor shall under all circumstances be responsible for the preservation of all public and adjacent properties and shall use every precaution necessary to prevent damage or injury thereto.
- B. <u>Present Structures</u>: The Contractor shall use suitable precautions to prevent damage to pipes, conduits, and other underground structures as well as fences, monuments or any other above ground structures. The Contractor shall confirm the location of any utilities within the project area and adjoining land with the Utilities agent.
- C. <u>Trees and Shrubs:</u> The Contractor shall be responsible for the protection of all trees and shrubs not marked for removal. The Contractor shall provide on-site traffic patterns away from existing trees and shall provide suitable ramps where necessary. Methods for ramps, staking and bark protection must be developed by the Contractor and approved by the Owner.
- D. <u>Protection for the Owners, Employees, and General Public</u>:
 The Contractor shall be responsible for adequately barricading off the construction areas, covering holes, properly storing equipment, and providing other suitable methods for the protection of said persons.

E. Contractor shall be responsible for site safety and security. Contractor is responsible for the safety of its employees, subcontractors, vendors, and suppliers or any and all under the direction of the contractor. The contractor shall be responsible for the safety of the public in relation to construction activities. The contractor shall be responsible for the security of materials before they are installed, after installation and the safety of patrons on partially constructed work.

1.30 STORAGE

Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms or other hard, clean surfaces, and not on the ground, and/or they shall be placed under cover. Private property shall not be used for storage purposes without the written permission of the owner of said property.

1.31 PARKING

Parking of construction vehicles on the site by the Contractor shall not inhibit construction nor prevent access for emergency or other official vehicles. Parking of private vehicles on the site by the Contractor is prohibited unless said vehicle is necessary in the execution of the Contract. No construction vehicles shall be parked near or under any existing vegetation on the site. The Village will designate a staging area and parking which shall be used for the project.

DIVISION II - SPECIAL CONDITIONS

2.1 EXCAVATION

A. LAYOUT

The Contractor shall be responsible for the execution of work to the lines and levels shown on the Drawings. He shall utilize a qualified and competent individual to establish all grades required. All lines and levels shall be approved by owner in field before beginning construction and grading.

B. EXCAVATION

- 1. Excavation to the depths and dimensions required. Excavate so paved areas shall bear on materials not subject to decomposition.
- 2. Stockpile excavated materials so as not to interrupt construction or private or public access. Place stockpiles so as not to restrict natural drainage. No stockpiles will be permitted within the natural areas or the berm.
- Dispose of excess unsatisfactory soil material, trash and debris off site unless directed for distribution on site.
 Elevations shall be determined in field by owner with contractor in order to balance cut/fill and in order to insure intent of the design.
- 4. Digital photos and/or video shall be utilized to document the excavation activities. Such photo-documentation shall be provided to the Owner upon request.
- 5. Prior to any construction work at the site, the Contractor will visibly pre-delineate all work zones as appropriate within the natural area, curb area and berm.

2.2 COMPACTION

A. GENERAL

- 1. Compaction shall be accomplished by the use of power rollers, sheep foot rollers, machine tampers or other suitable mechanical equipment.
- 2. The soils of the natural area portion of the site are known but not of the berm. The Contractor shall familiarize him/herself with the soil types, its characteristics, and physical properties and adjust its methods as needed to successfully work with the soils. The Contractor may need to conduct a soil boring of the berm prior to initiation of construction of the trails, stairs, landings or the decks. These tests would be done at no additional cost to the Owner.
- 3. Soil shall be moistened or allowed to dry, if necessary, to correct moisture content before compaction.
- 4. Any mobile equipment or vehicle used in this project within the natural areas shall be equipped with low impact low pressure (< 5 psi) tires. Said equipment must be moved off-site at the end of each day. The Contractor shall avoid soil compaction of the natural areas or wetlands at all times due to equipment use or storage.

B. UNPAVED AREAS

Compact the top six (6") inches of subgrade and each subsequent six (6") inches of backfill at 90% density at optimum moisture content.

C. PAVED AREAS

- 1. The subgrade shall be compacted to a minimum 95% density at optimum moisture content. Compact the top six (6") inches of subgrade and each subsequent six (6") inches of fill material. Fill material to be inorganic material, free of debris.
- 2. Granular fill shall be compacted in lifts not less than six (6") inches to a minimum 95% density at optimum moisture content.

D. TESTING

The Contractor shall obtain a compaction test from a reputable testing laboratory indicating that the compaction procedures meet the specification, at no additional cost to the owner, if in the opinion of the owner such a test is warranted.

2.3 <u>ROUGH GRADING - SUBGRADE</u>

A. GENERAL

- 1. All subgrade shall not vary more than 0.10' above or below the required subgrade elevations. Compact as required and prepare subgrade free from irregular surface changes.
- 2. Conduct final rolling operations to produce a hard, uniform and smooth cross-section,.
- 3. Before starting grading operations, the area shall be thoroughly clear of all grass, weeds or other vegetation which would be a hindrance to grading operations. However, no clearing shall occur outside the boundary of the delineated work zone.
- 4. Any material on site that would be unsatisfactory for fill material shall be removed from the site.

B. LAYOUT

The field Layout shall be the responsibility of the contractor.

2.4 <u>FINISHED GRADE</u>

A. GENERAL

- 1. Scarify two (2") inches deep all clay subgrade surfaces prior to placement of topsoil.
- 2. In paved areas, subgrade must be compacted as required before placement of granular material.
- 3. Raised wooden cover boards shall be used whenever construction activity may impact soils or natural vegetation.

B. FINE GRADING – RESTORATION AREAS

- 1. Disc topsoil to a depth of four (4") inches. Remove all foreign objects greater than two inches in diameter.
- 2. Final grade shall not vary more than 0.10' above or below finished grade shown on the Drawings.

2.5 ENVIROSIGNS

A. GENERAL

Owner will provide Envirosigns per specifications below. Contractor shall install per the drawings and manufacturer's specifications if ADD ALTERNATE #4 is selected.

B. MATERIALS

1. DURAREADER TECHNICAL SPECIFICATIONS

Products Description for digital High Pressure Laminate (dHPL)

Solid Composite Panels

General Description

DuraReader solid composite panels are, fire retardant, impervious to moisture, extremely resistant to

UV rays, scratching, impact, and graffiti. Fossil outdoor panels are protected with a 10 year UV inhibitor. Graphics are made using 12-Color High Definition printing technology. Panels are entirely made in the U.S.A. Thickness from 1/16" to 1". Grades over 1/2" are self-supporting and can be fitted with threaded inserts.

Laminate Grades

General Description

Laminate grades are manufactured with a smooth sub-surface image on one side and a sanded surface on the other side to allow proper bonding to the supporting substrate. Bonding FOSSIL laminate panels to substrate materials should be done according to the proven principles of veneering. Particleboard and MDF are among the many suitable substrates on which a FOSSIL laminate grade panels can be bonded. Fossil 0.035" panels can be formed to simple bends and profiles. FOSSIL 0.048" is a general purpose panel suitable for practically all flat (horizontal or vertical) applications. Panels are fire retardant, resistant to moisture, extremely resistant to UV rays, scratching, impact, and graffiti. Fossil outdoor panels are protected with a 10 year UV inhibitor. Graphics are made using 12-Color High Definition printing technology. Panels are entirely made in the U.S.A.

Thickness

Weight

0.035" (.889mm)	Grade Pounds Per Sq. Ft.
0.045" (1.2mm)	0.035" = 0.30
1/16" (1.5mm)	0.048 = 0.34
1/8" (3mm)	1/16" = . 0.45
1/4" (6mm)	1/8" =. 0.91
1/2" (12mm)	1/4" = 1.8
3/4" (19mm)	1/2" = 3.6
1" (25mm)	3/4" = 5.4
	1" = 7.2

Surface Finish

Semi-Gloss: A reflective finish that accentuates detail and diminishes reflective light. Reflectivity of 30 + or - 5 gloss units. UV Inhibitors added to outdoor finish.

Core Color: Black

Strength

Comprehensive Strength:

M.D. 193,064 Kpa (31,000 PSI) C.D. 172,378 Kpa (25,000 PSI)

Tensile Strength:

M.D. 151,693 Kpa (22,000 PSI) C.D. 110,322 Kpa (16,000 PSI)

Flexural Strength:

M.D. 158,588 Kpa 23,000 PSI) C.D. 103,427 Kpa (15,000 PSI)

Impact (Edgewise)

M.D. 0.6 FT/LBS/IN C.D. 0.5 FT/LBS/I Rockwell Hardness M Scale: 95 to 115

PRODUCT PROPERTIES:

Product Description:

High Pressure Decorative Laminate consisting of decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.

NEMA:

DuraReader dHPL panels exceed the standards for decorative laminates established by the National Electrical Manufacturers Association NEMA LD3-1991. These standards establish the minimum criteria for resistance to wear, boiling water, high temperature, cigarette burns, fading, dimensional stability, staining, appearance and formability (bending and postforming grades).

Chemical & Stain Resistant:

DuraReader panels are perfectly suited for commercial use where chemical products are used. They are resistant to common house-hold products, solvents, mild alkalis, and diluted mild acids. Some staining agents, especially those with grease bases paint or ink, will require the use of a solvent for removal. These stains can be removed using turpentine, 100% mineral spirits, isopropyl "rubbing alcohol", Goof Off "Graffiti Remover" or WD-40, lacquer thinner, acetone or MEK.

Static Electricity:

DuraReader dHPL panels do not store static electricity and are therefore suitable for use in controlled

environments where accumulation and retention of static electricity must be avoided.

Fire Retardant:

DuraReader dHPL panels are suitable for application where fire retardant properties are required by building codes.

Sheet thickness: 0.035" (.889mm)

- 1. Exceeding performance requirements of NEMA LD 3-1995 Grade VGF.
- 2. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 40; Smoke developed 70.

Sheet thickness: 0.048" (1.2mm)

- 1. Exceeding performance requirements of NEMA LD 3-1995 Grade VGF.
- 2. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 35;

Smoke developed 80.

Sheet thickness: 1/16" (1.5mm) to 1" (25mm)

- 1. Exceeding performance requirements of NEMA LD 3-1995 Grade VGF.
- 2. Surface burning characteristics in accordance with ASTM E 84.

FlammabilityASTM E-162. Flame propagation index of 10 (Radiant Panel) to 15 without drip of flame.

Toxicity Test: LC50 Pittsburgh Protocol Toxicity Test. Equal to and no more toxic than wood or paper.

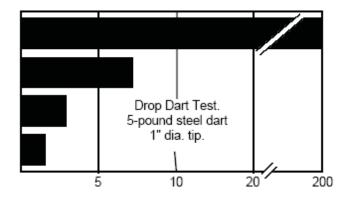
2. ENVIROREADER TECHNICAL SPECIFICATIONS

General Description

Mar/UV-resistant EnvroReader combines the impact strength of polycarbonate sheet with a proprietary abrasion/UV resistant surface that approaches glass in performance. EnviroReader coating is backed by a ten-year limited warranty against yellowing, abrasion resistance, breakage, loss of light transmission, and coating failure. The EnviroReader's unique coating is graffiti-resistant enabling restoration to a likenew condition. In addition, the EnviroReader offers improved resistance to weathering as well as breakage. It is an excellent candidate for use in stores, public buildings, schools, bus shelters and other high traffic areas. Because of its high mar-resistant surface, paint, adhesives and other materials will not adhere to its surface.

Impact Resistance - Measured in foot-pounds

1/4"EnviroReader Material
1/4" Acrylic
1/4"Tempered Glass
1/4"Laminated Glass



Code Compliance

The EnviroReader material meets the requirements of all major model building codes

- Model Building Code Organizations The Approved Light Transmitting Plastics requirements set by the three major Model Building Code organizations (BOCA, ICBO, and SBCCI) and Dade County. The EnviroReader material meets the highest rating—Class CC1 Approved Plastic.
- Underwriters Laboratories lists the EnviroReader material as a Burglary-Resisting Glazing Material according to UL Standard 972.
- CPSC: 16 CFR 1201, I, II the EnviroReader material complies with the Consumer Product Safety Commission's Safety Standard for architectural glazing materials for both Category I and Category II applications.

C. INSTALLATION

Install signs and sign footings per details on sheet D-1. The Village will purchase the signs. Final design is still to be determined. Sign orientation and location shall be staked and approved prior to installation.

2.6 TRAILBLAZE - ADA ACCESSIBLE AGGREGATE PATHWAY SURFACE

PART 1 – GENERAL

1.1 SUMMARY

- A. This section includes the material and labor requirements for construction of a complete pathway surface for the following items:
 - 1. TrailBlaze Pathway Aggregate
- B. Related Sections include, but are not limited to:
 - 1. Site Preparation
 - 2. Earthwork

1.2 SUBMITTALS

- A. Prior to commencement of construction, contractor shall submit a sample of product to be utilized, and an independent laboratory test result indicating the particle size analysis of the product for approval from Owner's Representative.
- B. Prior to commencement of construction, contractor shall submit documentation demonstrating pathway surface material's compliance with ASTM F1951.

1.3 PROJECT/SITE CONDITIONS

- A. All site work and earth work shall be performed in accordance with the preceding sections.
- B. Verify dimensions, compaction, and grading of sub base material prior to placement of the pathway surface material.
- C. Where pathway is indicated on plans to fit with other construction, verify dimensions of other construction prior to placement of pathway material.
- D. The maximum allowable slope for a ground-level accessible route is 1:16. Minimum clear width for a ground-level accessible route is 60 inches. The route may narrow down to 36 inches for a distance of 60 inches. This permits flexibility to work around site design features like existing equipment or trees.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Installer of materials specified shall have a minimum of five successful installations of similar projects and materials, or approval by manufacturer.

PART 2 - PRODUCTS

2.1 PATHWAY AGGREGATE MANUFACTURERS

A. TrailBlaze Pathway Aggregate is provided by the following manufacturer (or approved equal):

Waupaca Sand & Solutions, E3481 Royalton Street, Waupaca, WI 54981

Dena DiVincenzo

Phone: 715-258-8566 ext. 200, Fax: 715-256-3983

Website: www.WaupacaSand.com Email: info@WaupacaSand.com

2.2 PATHWAY AGGREGATE MATERIALS

A. TrailBlaze Pathway Aggregate manufactured by Waupaca Sand & Solutions, E3481 Royalton Street, Waupaca, WI 54981, Phone 715-258-8566

- B. Particle Size Specification
 - 1. Particle size shall be determined using ASTM Method C136
 - 2. Particle size distribution shall be as follows:

US Sieve	% Passing
3/8"	97-100%
4	90-100%
8	65-80%
16	40-55%
30	25-40%
50	10-25%
100	5-15%
200	0-10%

B. Color Specification

- 1. Wet color shall be 5YR 4/4 Reddish Brown on Munsell Color Chart.
- 2. Dry color shall be 5YR 5/4 Reddish Brown on Munsell Color Chart.

PART 3 - EXECUTION

3.1 SUB BASE INSTALLATION

A. Place 4" of state DOT recommended crushed aggregate road base using two separate 2" lifts. Smooth each lift to desired grade and cross section and compact. Finished compacted sub base layer shall be a 3" finished depth.

3.2 PATHWAY SURFACE INSTALLATION

- A. Verify that the sub base has been prepared according to specifications with regard to compaction and grade, and is free of debris prior to placement of pathway surface material.
- B. Prior to placement, ensure that moisture content of TrailBlaze is between 8%-10%.

C. Place 4" of TrailBlaze Pathway Aggregate over the prepared base using two separate 2" lifts. Smooth each lift to desired grade and cross section and compact. Finished compacted pathway surface layer shall be a 3" finished depth.

3.3 INSPECTION

A. Entire pathway shall be checked for irregularities through visual observation.
 Compacted
 TrailBlaze Pathway Aggregate shall be firm with no soft areas and finish graded per the plans. Any irregularities shall be repaired.

3.4 MAINTENANCE

A. Ground surfaces must be inspected and maintained regularly and frequently to ensure continued compliance with the ASTM F 1951-99 standard. The frequency of maintenance and inspection of surface depends on the amount of use the surface receives.

2.7 TRAILBLAZE PATH LANDSCAPE EDGING

PART 1 GENERAL

This will apply if ALTERNATE #3 is selected.

1.01 WARRANTY

A. 15-year limited material warranty for landscape edging from manufacturing defects in workmanship or material.

PART 2 PRODUCTS

2.01 PLANTING ACCESSORIES

- B. Heavy Duty L-Shaped Profile Maintenance Strip Edging: Permaloc PermaStrip, 1/8\" (3.2mm) x 3-1/2 inches (89 mm) high, extruded aluminum, 6063 alloy, T-6 hardness, maintenance strip edging for straight-line and gentle curve applications in corrugated L-shaped profile having 1.2 inch (30.5 mm) horizontal base, as manufactured by Permaloc Corporation, Holland MI 49424, telephone (800) 356-9660 or (616) 399-9600. Section shall have loops on side of section to receive stakes spaced approximately 2 feet (610 mm) apart along its length.
- C. Thickness: 1/8 inch (3.2 mm) gage section at 0.060 inch (1.52 mm) minimum thick with 0.200 inch (5.1 mm) exposed top lip and 3/16 inch (4.8 mm) gage section at 0.076 inch 1.93 mm) minimum thick with 0.190 inch (4.8 mm) exposed top lip.
- D. Length: 16\' (4.8m) sections.
- E. Connection Method: Section ends shall splice together with a horizontal 0.060 inch (1.52 mm) thick x 1 inch (25 mm) wide x 4 inches (102 mm) long aluminum sliding connector.
- F. Stake: 12\" (305mm) Stakes to interlock into section loops.
- G. Finish: Mill Finish. Paint finish shall comply with AAMA 2603 for electrostatically baked on paint.

PART 3 EXECUTION

3.01 LANDSCAPE EDGING INSTALLATION

- A. Preparation: Ensure that all underground utility lines are located and will not interfere with the proposed edging installation before beginning work. Locate border line of edging with string or other means to assure border straightness and curves as designed.
- B. Set edging into trench with the horizontal base resting on compacted subbase and top at 1/2 inch (12.7 mm) above compacted finish grade on turf side. Loops for stakes are to be placed on the turf side. Drive stakes through edging loops until locked in place. Requires 8 stakes evenly spaced for each 16 feet (4.88 meters) section, or 3 stakes evenly spaced for each 8 feet (2.44 meters) section. Provide longer stakes, heavier gage stakes, or any combination of previously mentioned as necessary to firmly secure edging for permanent intended use.
- C. Where edging sections turn at corners and at angled runs, cut edging partially up through its height from bottom and turn back to desired angle to form rounded exposed radius.
- D. Backfilling and Cleanup: Backfill both sides of edging, confirm and adjust if necessary that sections are securely held together, and compact backfill material along edging to provide top of edging at 1/2 inch (12.7 mm) above turf finish grade. Cleanup and remove excess material from site.

2.8 <u>LOOKOUT DECK & BOARDWALKS</u>

A. GENERAL REQUIREMENTS

Equipment shall be installed according to the manufacturer's specifications. This will include the Boardwalks, Lookout Deck and Benches, as well as all required hardware. Equipment will be purchased by Contractor and installed per Manufacturer's specifications.

B. MATERIALS

1. GENERAL

All equipment is being supplied by as manufactured by Wickcraft Company, Inc., or approved equal.

CONTACT:

Brian Kuehn

Consultant/Project Manager Wickcraft Company, Inc. 1-800-549-7694 (608) 244-9177 office (608) 577-7844 cell www.wickcraft.com

Wickcraft Walkway Technical Specifications

Typical Frame Sections comprised of the following:

- 1. Walkway Frames for Treated Wood decking:
 - All frames meet or exceed International Building Code requirements of 100psf load capacity
 - Walkway perimeter frame members are fabricated with 4" X 2" X 1/8" ASTM A500 Structural Steel tubing for the 4', 6' and 8' wide sections
 - o Perimeter frame members are enclosed with the lug, cap/tab combination
 - Walkway perimeter frame members are fabricated with 6" X 2" X 1/8" ASTM A500 Structural Steel tubing for the 10' wide sections
 - o Perimeter frame members are enclosed with the lug, cap/tab combination
 - (3) Walkway in-fill frame members are fabricated with 2.0" X 2.0" X 1/8" ASTM A500 Structural Steel Tubing for the 4' sections
 - (4) Walkway in-fill frame members are fabricated with 2.0" X 2.0" X 1/8" ASTM A500 Structural Steel Tubing for the 6' sections
 - (5) Walkway in-fill frame members are fabricated with 2.0" X 2.0" X 1/8" ASTM A500 Structural Steel Tubing for the 8' sections
 - (6) Walkway in-fill frame members are fabricated with 2.0" X 2.0" X 1/8" ASTM A500 Structural Steel Tubing for the 10' sections

- (4) Support Leg Sleeves fabricated with 2" X 2" X 3/16" ASTM A500 Structural Steel Tubing for the 4', 6', 8' and 10' sections
- (4) Legs are fabricated from 1 1/2 "X 1 1/2 "x 1/8" ASTM A500 Structural Steel Tubing
 - o Length varies from 16" to 72"
 - o Over 36" cross bracing is required Leg Footpads are shaped from 1/4" steel plating
- \bullet (2) Female Clips/Cap/Tab are fabricated from 1/4" A36 structural steel and are laser cut
- (2) Male Clips/Cap/Tab are fabricated from 1/4" A36 structural steel w/ (2)/ea steel A36 steel pins

Post fabrication the entire frame assembly is hot dipped galvanized with a minimum of 3.9 micron thickness of zinc based galvanizing. Frames are then hand rasped and cleaned to remove any sharp edges without compromising the galvanized integrity. If post pockets are added for a hand railing, 7 Gauge plate steel is used to manufacture a 4" x 4" post pocket.

Decking is comprised of the following regardless of length or width:

- Wood Decking
 - o Arsenic Free 2" x 6" Western Wood structural lumber is utilized for the decking surface and 2" x 4" Western Wood is utilized for the decking joists
- o Deck surface boards are fastened to the decking joists with Simpson Strong Tie 2 1/2"

stainless steel trim screws

Stair breakdown of materials:

- 1. 12 tread stair with 13 risers
 - a. Materials
 - i. Side rails (main support tubing)
 - 1. 3x2x1/8 tubing
 - ii. Leg sleeves (8) 1. 2x2x3/16
 - a. 10" in length
 - i. 1 set nut, 3 self-tapping screws
 - iii. Tread support tubing
 - 1. 2x2x1/8 (3) per tread 4' in width
 - iv. Tread/Main support tubing connection
 - 1. 2x3x3/16 angle Iron
 - a. These will be welded to main support and tread supports will be welded on bottom of angle iron (see photo attached)
 - b. Will also serve as the tray in which the wood treads rest and are connected with carriage bolts
 - v. Guardrail
 - 1. Welded on post pockets
 - a. Wood guardrail

Platform breakdown of materials:

- 1. Platform 15' x 30'
 - a. Galvanized tubing frame supported by 3" schedule 40 galvanized pipe(15) support pilings.
 - b. Support posts will have tabs welded on to accept fencing/screen on below platform. c. Supports will have a galvanized plate that with (4) holes for concrete anchors
 - d. Guardrail will consist of 4x4 treated posts with 2x6 treated horizontal rails and a 2x8 treated cap

*Note: Concrete footings to be 12" x 12" square. Depth of footings to be below frost line.

2. INSTALLATION

The Contractor will install all equipment to the manufacturer's specifications. Shop drawings will be generated for the awarded contractor to submit for final approval prior to ordering. All safety guidelines and local codes must be followed.

3. UTILITIES

The Contractor must verify with the governing agencies and utility companies as to the status of all utility hook-ups, both existing and presumed abandoned, to determine whether construction activities will interfere with utility service.

2.9 LANDSCAPE RESTORATION & NATURAL EROSION CONTROL PLANT MIX

A. GENERAL REQUIREMENTS

This work shall consist of supplying all materials, labor, tools and equipment necessary to establish a quality stand of plants at all locations disturbed and/or degraded in the process of construction of all hardscape & path areas. Contractor shall provide and install an erosion control plant mix as specified below. This mix is designed primarily for the restoration of the disturbed areas on the berm. However, the mix may be used (if needed) for re-seeding the areas adjacent to built facilities.

B. MATERIALS

Clean seed mix shall be used free of any invasive, alien or noxious species. All seed shall meet industry PLS requirements (including a written tag attesting same). All seed shall be stratified and sourced as native within 100 miles of Chicago. The broadcast coverage rate shall be agreed to with the Owner based on site conditions. A minimum seeding rate (PLS) of nine (9) pounds per acre will be required but more may be if conditions require. PLS requires an 80% minimum germination (including a written tag attesting same). The grass to forb ratio shall be 70% grasses to 30% forbs.

Erosion Control Seed Mix:

Manual Broadcast (Grass blend no less than 70% by Weight)

Canada Wild Rye (Elymus canadensis)

Big Blue Stem (Andropogon gerardi)

Redtop (Agrostis alba palustris)

Switchgrass (Panicum virgatum)

Little Bluestem (Andropogon scoparius)

Prairie satin grass (Muhlenbergia cuspidata)

Yellow-Headed Coneflower (Ratibida pinnata)

Purple Coneflower (Echinacea purpurea)

Prairie Cord Grass (Spartina pectinata)

Stiff Goldenrod (Solidago rigida)

Ohio Spiderwort (Tradescantia ohiensis)

Seed Oats (Avena sativa) as cover crop

C. INSTALLATION

Establishing effective vegetation on an erodible site such as this berm presents special considerations. Plantings on the steep slopes are vulnerable to washouts and require special precautionary measures. Fast growing cover crops of oats shall be sown along with the native seed to secure the soil. In addition, light mulching with clean oat or prairie grass straw shall be used on any moderate slopes. On steep slopes exceeding a 4 to 1 ratio, erosion blankets shall be applied. An on-site determination is needed to determine if any rain event water flows need be controlled or checked with erosion control barriers, e.g. straw bales, until vegetation is fully established.

Slopes greater than 4:1 are proposed to be matted with NAG S150BN erosion control blanket (or equal) to reduce on-site erosion and minimize sediment fall. In addition, wherever an upper slope excessive soil disturbance results from construction and the slope is 2:1 or greater, the same blanket should be used. Clean oats, wheat or prairie grass straw shall be used on slopes less than 3:1 after seeding with the native seed mix.

D. FINAL ACCEPTANCE

- 1. General Final inspection and acceptance will be at the end of the establishment period.

 Acceptance will be based upon a satisfactory stand of groundcover having 100% ground cover of species established. Restoration areas with invasive species will not be accepted.
- 2. Areas that do not meet the contract requirements shall be re-seeded. Repair rejected areas within acceptable planting dates as directed by Owner.
- 3. Should the season not be suitable for re-seeding, the Owner may request the Contractor to substitute and plant two (2) year seedlings of the forbs and one (1) year old plugs of grass to provide suitable vegetative cover at no additional expense to the Owner.

2.10 WOODCHIP PATHS

Part I - General

1.1 Summary

The work includes: excavating, placing and compacting of woodchip paths.

Part II - Products

- 2.1 Village of Bridgeview will provide woodchips.
- 2.2 The drainage fabric shall be a non woven polyester fabric, 4 oz./sq. yard minimum weight, manufactured for drainage applications such as Amoco's "Propex 4545", "Trevira 1114", or Phillips 66 "Supac 4 NP" drainage fabric, or approved equal.

Part III - Execution

- 3.1 Full path installation
 - A. Landscape Architect & Owner to approve the staked layout prior to installation.
 - B. Contractor shall grade and compact subgrade. All loose soil and rutting shall be repaired prior to installation of fabric & woodchips.
 - C. Contractor shall install fabric with a minimum 12" overlap over the subgrade.
 - D. Lay surface course and compact to a minimum degree of compaction of 95 percent. The finished surface shall not vary more than 1/2" over 10 feet.

2.11 GRASS SEEDING

A. GENERAL REQUIREMENTS

This work shall consist of supplying all materials, labor, tools and equipment necessary to establish a quality stand of grass at all locations disturbed and/or regraded in the process of construction of all paved areas. Contractor shall provide grass seed and fertilizer as herein specified.

B. MATERIALS

1. Seed

Turf and native seed shall be fresh, clean, dry new-crop seed composed of varieties, mixed in proportions, and tested for minimum percentages of purity and germination as follows by weight.

	Proportion		
<u>Variety</u>	By Weight	Purity	Germination
Buffalo Grass (Buchloe dactyloides)	50	90	80
Purple Love Grass (Eragrostis spectabilis)	10	90	80
Side-Oats Grama (Bouteloua curtipendula)	10	90	80
Blue Grama (Bouteloua gracilis)	10	90	80
Redtop (Agrostis alba)	10	90	90
Annual Rye (Lolium multiflorum)	5	90	90

The variety selected should be cultivars for the Midwest/Great Lakes area. Maximum weed content shall be 0.30 %

2. Mulch/Wood Fiber

Provide mulch consisting of specially prepared virgin wood fiber, processed to contain no growth or germination-inhibiting factors, and dyed an appropriate color to facilitate visual metering of the application of materials. On an air-dry weight basis, provide wood fiber containing not more than 12% moisture, plus or minus 3% at the time of manufacture, with a ph range from 3.5 to 5.0. Provide wood fiber manufactured so that:

- a. After addition and agitation in slurry tanks with water and other approved additives, the fibers in the material will become uniformly suspended to form a homogeneous slurry.
- b. When hydraulically sprayed on the ground, the material will form a blotter-like cover impregnated uniformly with grass seed.
- c. The cover will allow the absorption of moisture and allow rainfall or applied water to percolate to the underlying soil.

3. Tackifier

Binding agent used to hold mulch material in place shall be a clear non-staining latex based tackifier or a water-soluble polymer such as Curasol, Terra Rack or Fibrex Spray Sod.

4. Fertilizer

- a. Granular fertilizer shall contain a minimum percentage by weight of 10-20-10, nitrogen (of which 50% shall be organic), available phosphoric acid, and potash.
- b. Fertilizer to be delivered in manufacturer's original unopened containers bearing the manufacturer's guaranteed analysis. Store in a dry location.

C. INSTALLATION

1. Grade Preparation

- a. Immediately before seeding, scarify, loosen, float and drag topsoil as necessary to bring it to the proper condition. Remove foreign matter larger than one inch in diameter.
- b. If the prepared grade is eroded or compacted by rainfall prior to fertilizing, rework the surface as specified.

2. Fertilizing

- a. Uniformly distribute fertilizer by mechanical means at the rate of 20 pounds per 1,000 square feet.
- b. Work fertilizer into the soil. Cultivating equipment shall be set so that the fertilizer will not penetrate into the soil more than 3 inches. Do not apply fertilizer when there is a possibility of rain before lawn areas can be seeded or sodded.

3. Seeding

- a. Sow seed during the months of April, May, August and September, unless otherwise approved by the Owner's representative. Do not sow seed when weather conditions are unfavorable, such as during drought or high winds.
- b. Perform drill seeding using approved equipment such as cultipacker seeders and grass seed drills.
- c. Drill the seed uniformly to an average depth of one-half inch and at a rate of 3 pounds per 1,000 square feet. All areas shall be seeded in at least two directions. Turfgrass seeds shall not be covered by more than one-fourth inch of soil. The seeding device shall lightly roll the seed bed to provide good moisture contact between the seed and soil.
- d. Water thoroughly and immediately with a fine mist until soil is soaked to a depth of 3 inches. Maintain soil in a moist condition until seeds have sprouted and reached a height of one inch. Water thereafter at least once every 14 days unless natural rainfall has provided equivalent watering.
- e. Spread mulch evenly at the rate of 2000 pounds per acre. Place mulch on seeded areas within 48 hours after seeding. Anchor the mulch by spraying tackifier which may be applied either simultaneously or in a separate application. Take precautionary measures to prevent tackifier materials from marking or defacing structures, pavements, utilities or plantings.

D. FINAL ACCEPTANCE

- 1. General Final inspection and acceptance will be at the end of the turf establishment period. Acceptance will be based upon a satisfactory stand of turf having 100% ground cover of species established.
- 2. Areas which do not meet the contract requirements shall be re-seeded or re-sodded. Repair rejected areas of turf within acceptable planting dates as directed by Owner.